

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-086584

(43)Date of publication of application : 28.03.2000

(51)Int.Cl.

C07C 69/712

C07D309/12

G03F 7/004

G03F 7/039

(21)Application number : 11-043177

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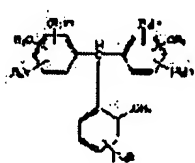
(22)Date of filing : 22.02.1999

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(30)Priority

Priority number : 10200737 Priority date : 15.07.1998 Priority country : JP

(54) NEW TRISPHEENOL ETHERS



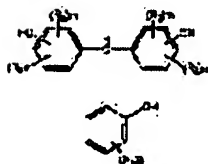
I



II



III



IV

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a new trisphenol ether having high solubility in various polymer substances including a photoresist and an organic solvent, useful as an acid decomposable dissolution inhibitor for a chemical amplification type resist composition.

SOLUTION: This trisphenol ether is shown by formula I (R1 is t-butoxycarbonylmethyl or tetrahydropyranyl; R2 is a 1-4C alkyl; R3 is a 5-6C cycloalkyl; (m) is 0-3, (n) is 0-2 and $O \leq m+n \leq 3$; (k) is 0 or 1) such as bis(2-methyl-4-t-butoxycarbonylmethoxy-5-cyclohexylphenyl)-methyl-2-t-butoxycarbonylmethoxybenzene. The compound of formula I is obtained, for example, by condensing a hydroxyl group-substituted benzaldehyde derivative of formula II (R4 is a 1-4C alkyl or alkoxy) with a phenol compound of formula III in the presence of an acid catalyst to give a trisphenol compound of formula IV and etherifying the compound.

LEGAL STATUS

[Date of request for examination] 28.01.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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